

FIG. 1
(PRIOR ART)

FIG. 2

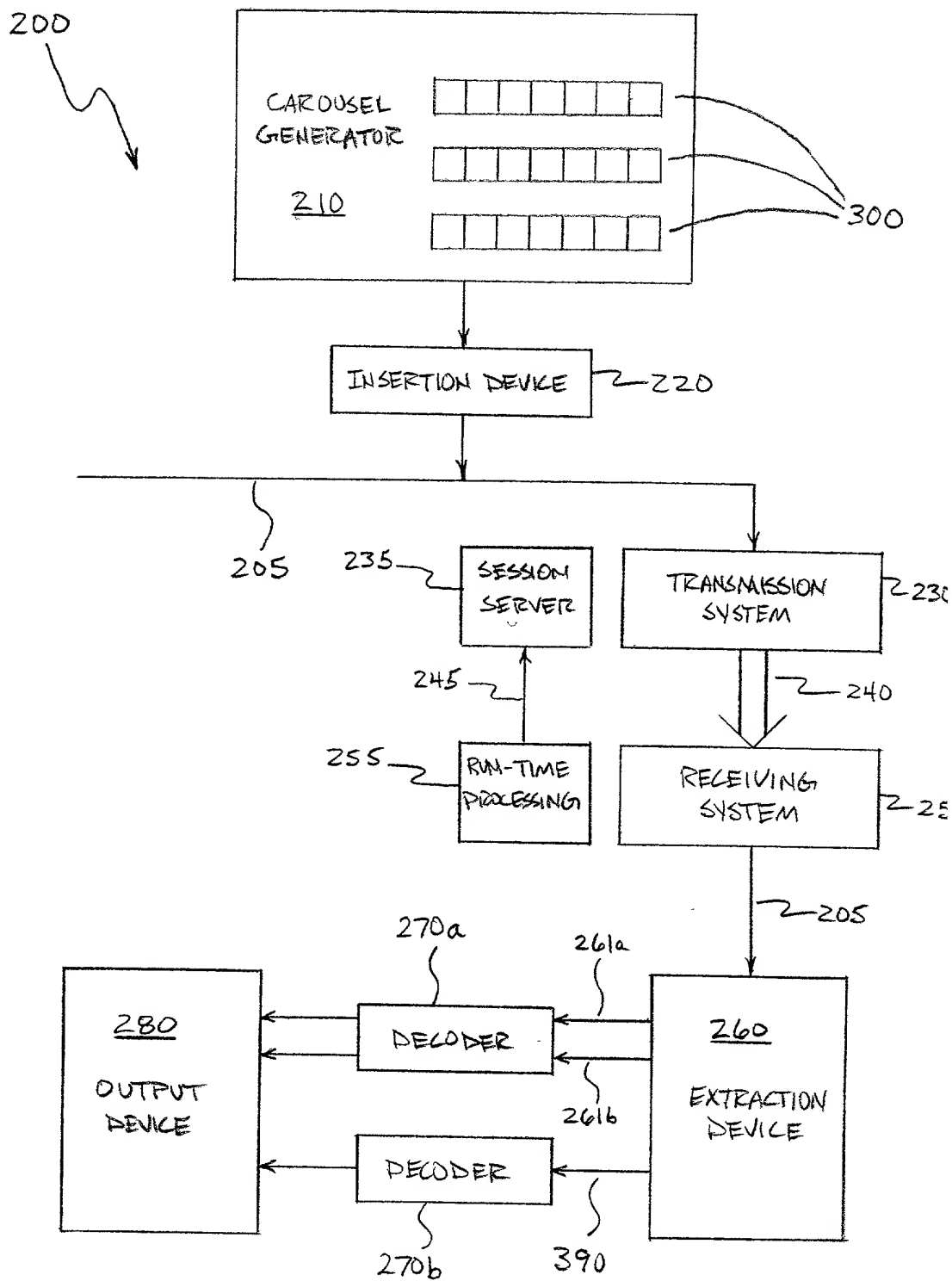


FIG. 2

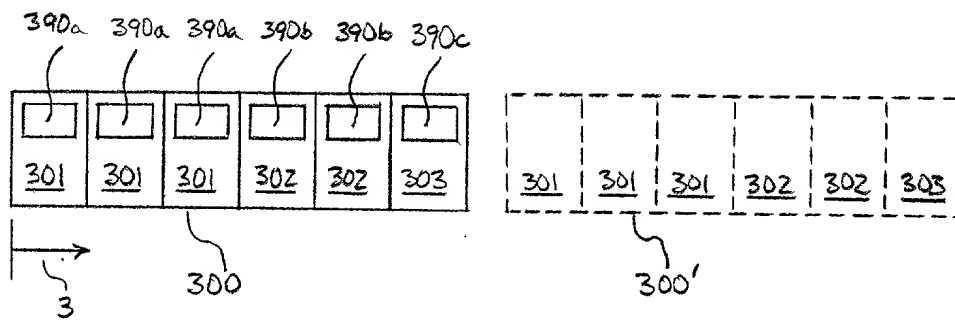


FIG. 3

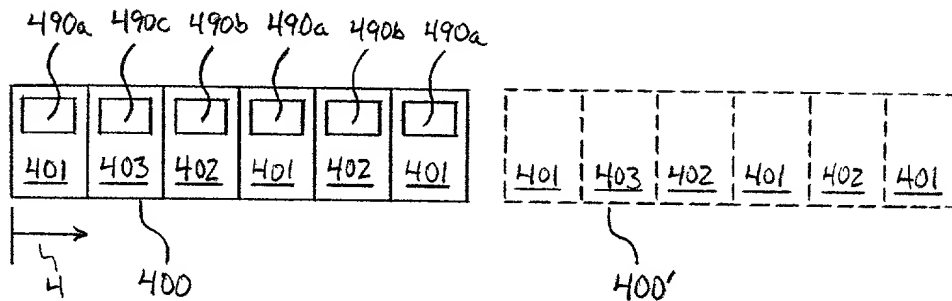


FIG. 4

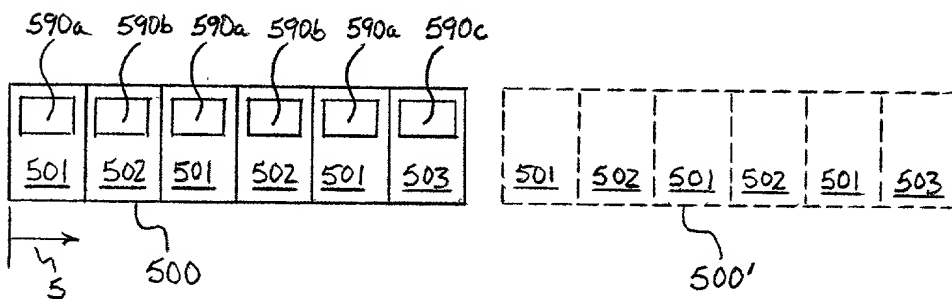


FIG. 5

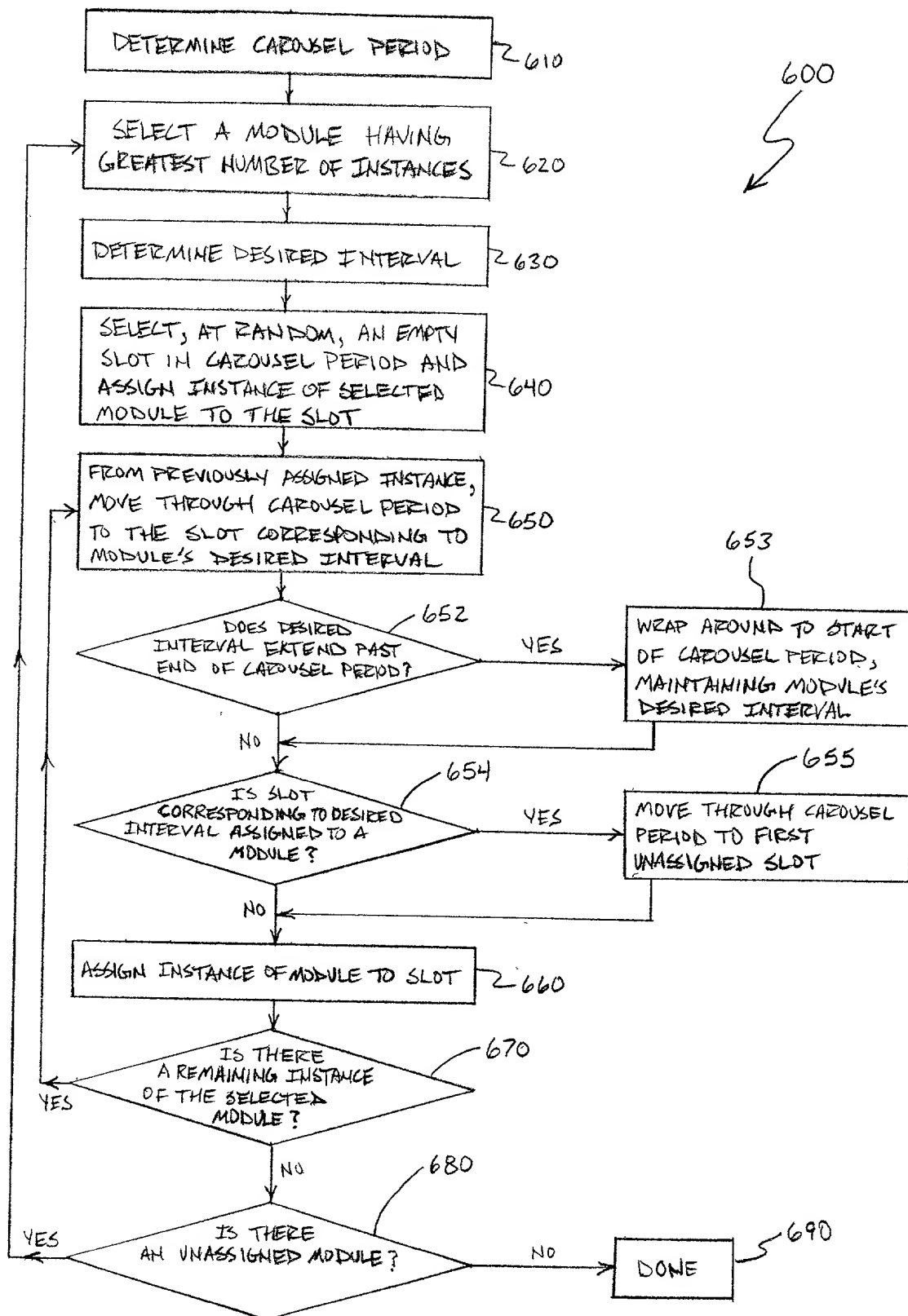


FIG. 6

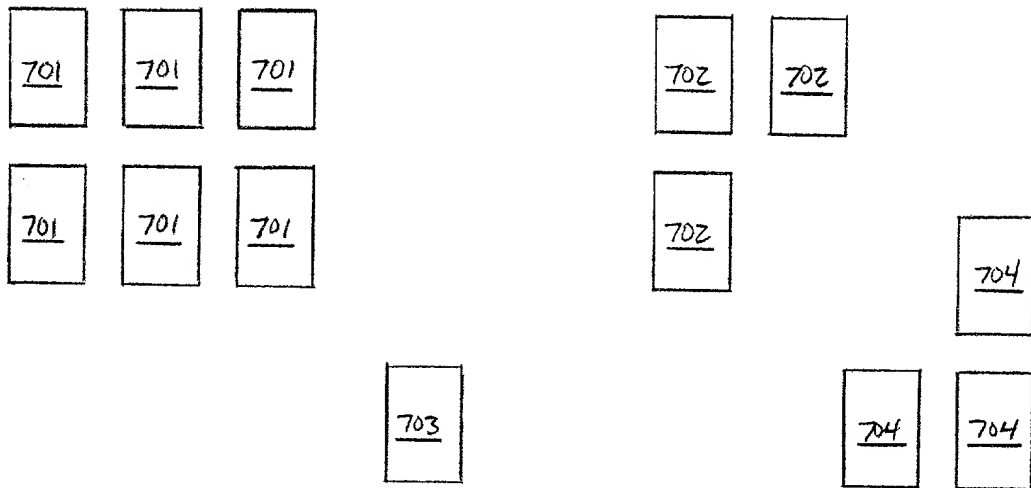


FIG. 7A

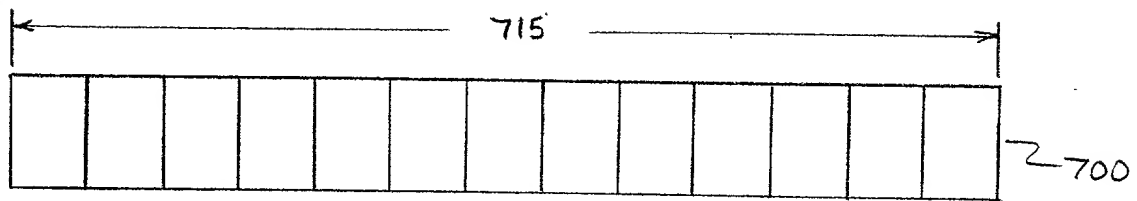


FIG. 7B

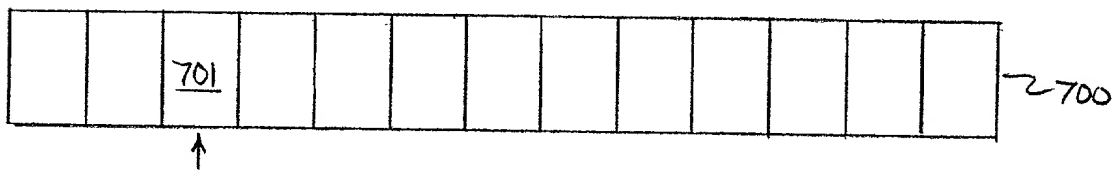


FIG. 7C

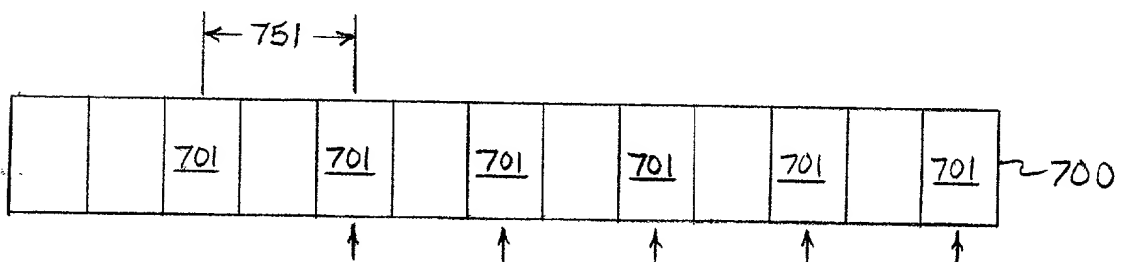


FIG. 7D

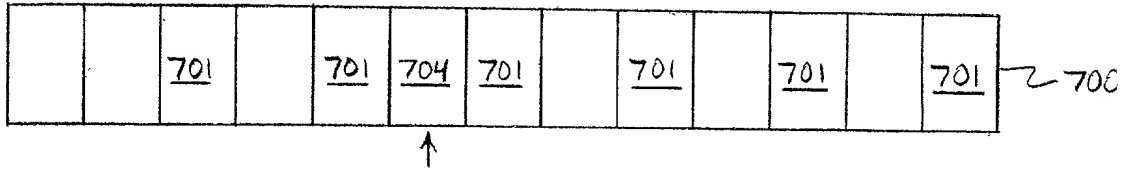


FIG. 7E

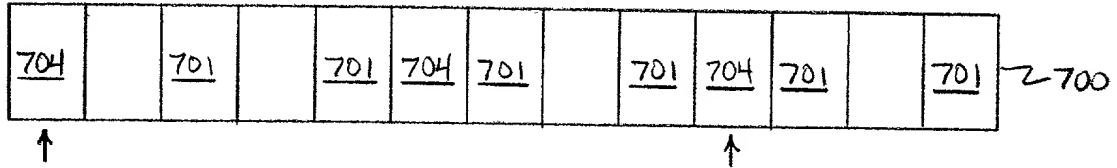


FIG. 7F

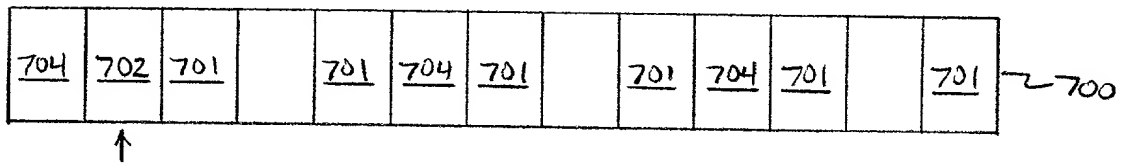


FIG. 7G

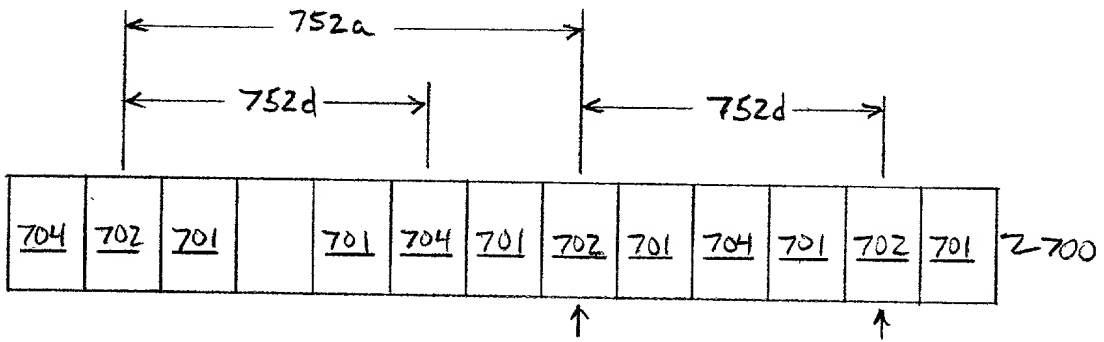


FIG. 7H

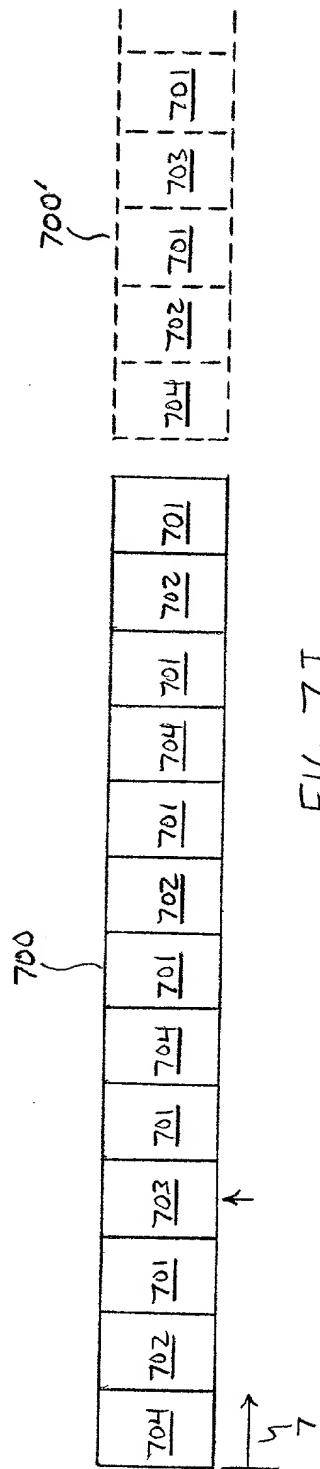


FIG. 7I

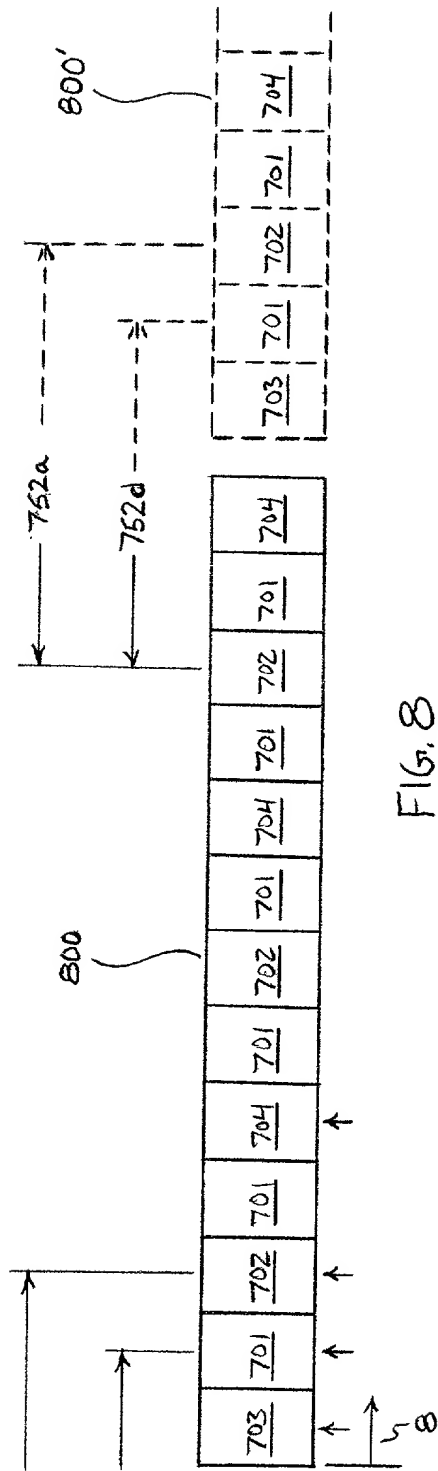


FIG. 8

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graph TD
    900((900)) --> 905[SUM = 0]
    905 --> 910[SELECT MODULE]
    910 --> 915[DETERMINE MODULE'S DESIRED INTERVAL]
    915 --> 920[SELECT INSTANCE OF MODULE IN CAROUSEL]
    920 --> 925[DETERMINE ACTUAL INTERVAL OF SELECTED INSTANCE]
    925 --> 930[DETERMINE INTDIFF OF SELECTED INSTANCE]
    930 --> 940[APPLY FUNCTION TO INTDIFF]
    940 --> 950[ADD RESULT TO SUM]
    950 --> 960{IS ACTUAL INTERVAL EQUAL TO 1 OR -1?}
    960 -- YES --> 965[ADD PENALTY TO SUM]
    965 --> 970{IS THERE A REMAINING INSTANCE OF SELECTED MODULE?}
    960 -- NO --> 970
    970 -- YES --> 910
    970 -- NO --> 980{IS THERE A REMAINING MODULE?}
    980 -- YES --> 910
    980 -- NO --> 990[DONE]

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FIG. 9

1000

MODULE	INSTANCE	DESIRED INTERVAL	ACTUAL INTERVAL	INTDIFF	RESULT	PENALTY	SUM
701	1 st	2	3	1	0.3	0	0.3
701	2 nd	2	2	0	0	0	0.3
701	3 rd	2	2	0	0	0	0.3
701	4 th	2	2	0	0	0	0.3
701	5 th	2	2	0	0	0	0.3
701	6 th	2	2	0	0	0	0.3
702	1 st	4	3	-1	0.3	0	0.6
702	2 nd	4	6	2	0.7	0	1.3
702	3 rd	4	4	0	0	0	1.3
703	1 st	13	13	0	0	0	1.3
704	1 st	4	5	1	0.3	0	1.6
704	2 nd	4	4	0	0	0	1.6
704	3 rd	4	4	0	0	0	1.6
↳ 1010	↳ 1020	↳ 1030	↳ 1040	↳ 1050	↳ 1060	↳ 1070	↳ 1080 1085

FIG. 10

1100

MODULE	INSTANCE	DESIRED INTERVAL	ACTUAL INTERVAL	INTDIFF	RESULT	PENALTY	SUM
701	1 st	2	3	1	0.3	0	0.3
701	2 nd	2	2	0	0	0	0.3
701	3 rd	2	2	0	0	0	0.3
701	4 th	2	2	0	0	0	0.3
701	5 th	2	2	0	0	0	0.3
701	6 th	2	2	0	0	0	0.3
702	1 st	4	5	1	0.3	0	0.6
702	2 nd	4	4	0	0	0	0.6
702	3 rd	4	4	0	0	0	0.6
703	1 st	13	13	0	0	0	0.6
704	1 st	4	5	1	0.3	0	0.9
704	2 nd	4	4	0	0	0	0.9
704	3 rd	4	4	0	0	0	0.9
↳ 1110	↳ 1120	↳ 1130	↳ 1140	↳ 1150	↳ 1160	↳ 1170	↳ 1180 1185

FIG. 11

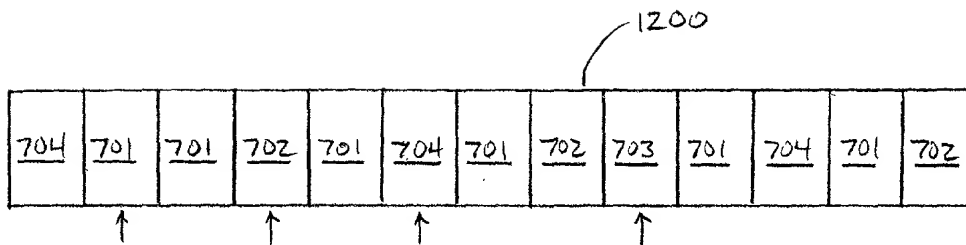


FIG. 12

1300

MODULE	INSTANCE	DESIRED INTERVAL	ACTUAL INTERVAL	INTDIFF	RESULT	PENALTY	SVM
701	1 st	2	3	1	0.3	0	0.3
701	2 nd	2	1	-1	0.3	5.0	5.6
701	3 rd	2	2	0	0	0	5.6
701	4 th	2	2	0	0	0	5.6
701	5 th	2	3	1	0.3	0	5.9
701	6 th	2	2	0	0	0	5.9
702	1 st	4	4	0	0	0	5.9
702	2 nd	4	4	0	0	0	5.9
702	3 rd	4	5	1	0.3	0	6.2
703	1 st	13	13	0	0	0	6.2
704	1 st	4	5	1	0.3	0	6.5
704	2 nd	4	5	1	0.3	0	6.8
704	3 rd	4	3	-1	0.3	0	7.1

1310 1320 1330 1340 1350 1360 1370 1380 1385

FIG. 13

FIG. 14

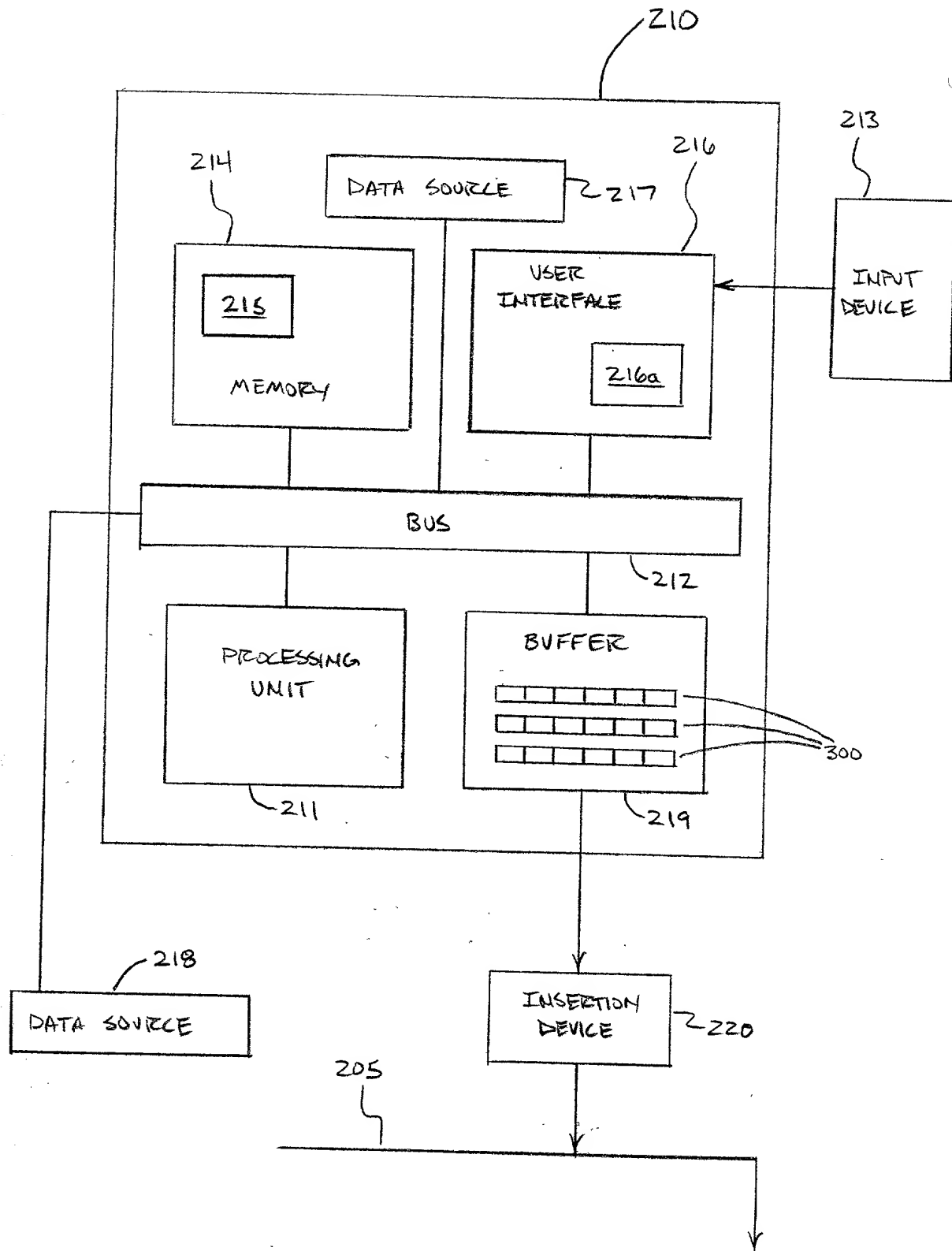


FIG. 14

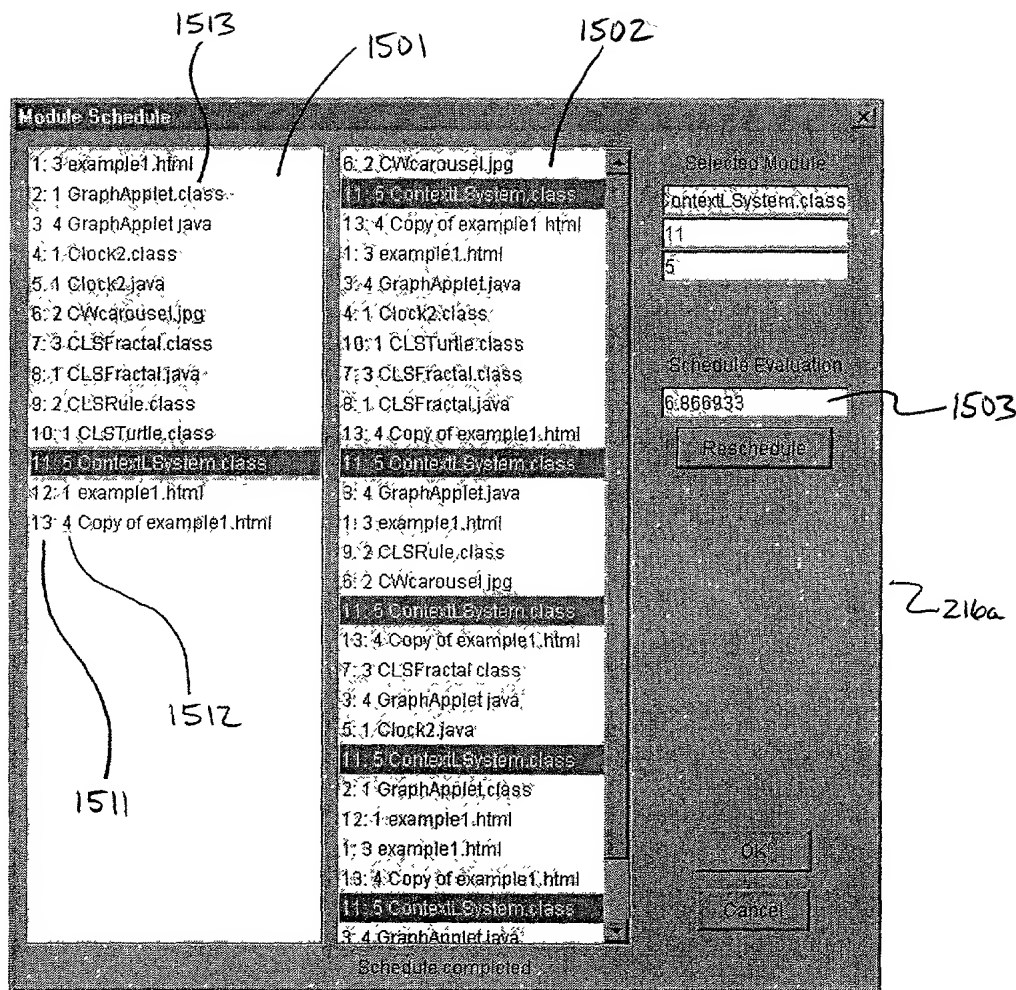


FIG. 15